Amendments to the Claims

Claims 1 – 82 cancelled

83. (Currently Amended) A transformer device comprising:

a single core comprising a substantially rectangular **[[-]]** shaped magnet having four sides, wherein two sides ~~each side is a section~~ of the rectangular **[[-]]** shaped magnet are parallel to each other;

two primary windings forming coils each having a substantially cylindrical shape, each primary winding being mounted co-axially with respect to one of the two parallel ~~on the core on opposing~~ sides of the magnet; and

two secondary windings forming coils each having a substantially cylindrical shape, each secondary winding being located and arranged concentrically with one primary winding and having its cylindrical axis substantially aligned with said one parallel side ~~mounted on~~ the core ~~on one of the same opposing sides~~ of the magnet.

84. (Currently Amended) The transformer device as claimed in claim 83, wherein the power through the transformer is balanced between the two parallel ~~opposing~~ sides.

85. (original) The transformer as claimed in claim 83, further comprising a tertiary winding mounted on each of the two primary windings.

86. (Currently Amended) The transformer as claimed in claim 83, further comprising an insulating compound between each pair of the primary and secondary windings being arranged concentrically.

87. (original) The transformer as claimed in claim 83, wherein the two primary windings are coupled in parallel.

88. (original) The transformer as claimed in claim 85, wherein the two tertiary windings are coupled in parallel.

89. (Currently Amended) A transformer device for an X-ray generating device, comprising:

a single core comprising a substantially rectangular **[[-]]** shaped magnet having four sides, wherein two sides ~~each side is a section~~ of the rectangular **[[-]]** shaped magnet are opposing to each other;

two primary windings, each primary winding mounted co-axially with respect to one of the ~~on the core on~~ opposing sides of the magnet; and

two secondary windings, each secondary winding mounted co-axially with respect to one primary winding and co-axially with respect to one of ~~on the core on one of~~ the ~~same~~ opposing sides of the magnet, wherein said secondary winding is connected to a load of said X-ray generating device and arranged for a resonant transfer of energy.

90. (New) The transformer device as claimed in claim 83, wherein said primary winding is wound on a substantially cylindrical bobbin positionable over one parallel side.

91. (New) The transformer device as claimed in claim 90, wherein said secondary winding is wound on a substantially cylindrical bobbin located over the primary winding, and the bobbins of said primary and secondary windings are arranged concentrically.

92. (New) The transformer device as claimed in claim 91 including a space between said primary winding and said secondary winding, said space being filled with an insulator.

93. (New) The transformer device as claimed in claim 92 wherein said insulator comprises a silicone rubber.

94. (New) The transformer device as claimed in claim 91, wherein said bobbin of said secondary winding includes ribs.

95. (New) The transformer device for an X-ray generating device, as claimed in claim 89, wherein an output of each secondary winding is connected to a capacitor forming an LC element.

96. (New) The transformer device for an X-ray generating device, as claimed in claim 95 further including a full-wave rectifier bridge connected in parallel to the output of said secondary winding.

97. (New) The transformer device for an X-ray generating device, as claimed in claim 96 further including a filter capacitor coupled across an output of said full-wave rectifier bridge.

98. (New) The transformer device as claimed in claim 89, wherein said primary winding is wound on a substantially cylindrical bobbin positionable over one of said two opposing sides.

99. (New) The transformer device as claimed in claim 98, wherein said secondary winding is wound on a substantially cylindrical bobbin located over said primary winding, and said bobbins of said primary and secondary windings are arranged concentrically.

100. (New) The transformer device as claimed in claim 99 including a space between said primary winding and said secondary winding being arranged concentrically, said space being filled with an insulator.

101. (New) The transformer device as claimed in claim 100, wherein said insulator comprises a silicone rubber.

102. (New) The transformer device as claimed in claim 99, wherein said bobbin of said secondary winding includes ribs.

103. (New) The transformer device for an X-ray generating device, as claimed in claim 98, wherein each said primary winding is wound together with a tertiary winding as a bifilar windings on said bobbin.

104. (New) The transformer device for an X-ray generating device, as claimed in claim 103, wherein at least two of said tertiary windings are connected in parallel.

105. (New) A transformer device comprising:

a single magnetic core comprising two parallel sides;

two primary windings and two tertiary windings, one said primary winding and one said tertiary winding being wound together on a primary bobbin positionable over one of said parallel sides of said magnetic core; and

two secondary windings each being wound on a secondary bobbin, said primary bobbin and said secondary bobbin being concentrically located with respect to each other and said coils wound on said bobbins defining a concentric space being filled by an insulator, wherein said two primary windings are coupled in parallel and said two tertiary windings are coupled in parallel.

106. (New) The transformer device as claimed in claim 105, wherein said filled insulator comprises a silicone rubber casted in said concentric space.

107. (New) The transformer device as claimed in claim 105, wherein said bobbin of said secondary winding includes ribs.